

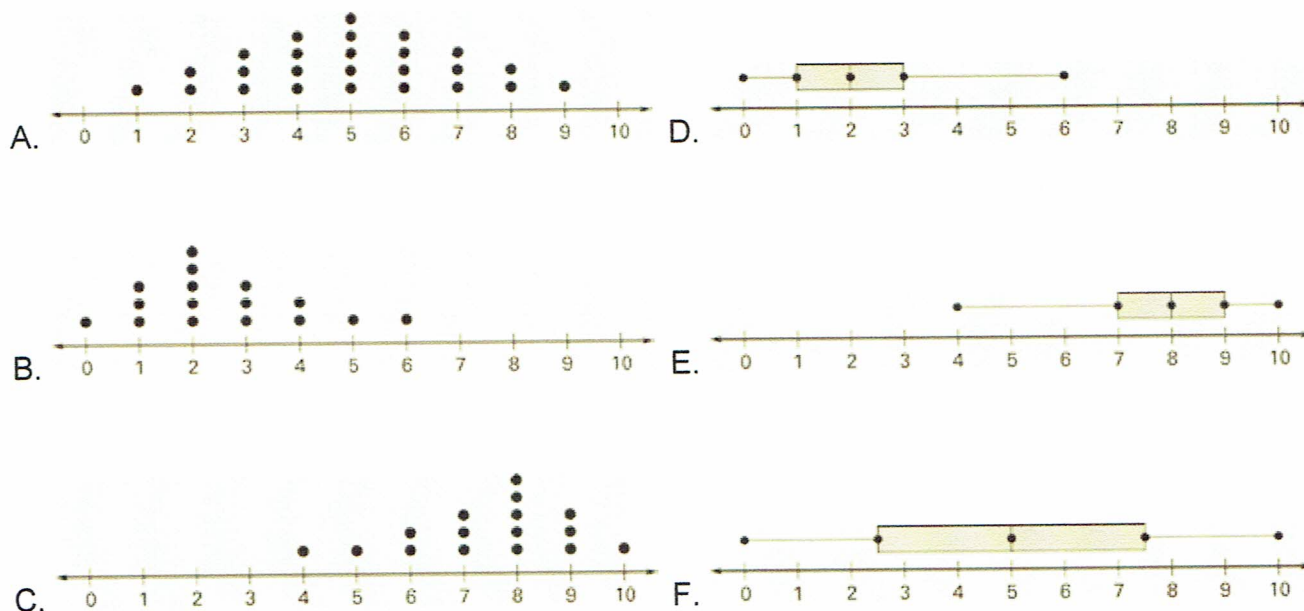
LESSON **5** **Data Collection and Analysis**

Reading Strategies: Understanding Vocabulary

In a **normal distribution**, the data are symmetrical about the center.
 In a normal distribution, the measures of center are equal.

In a **skewed distribution**, the data are not symmetrical about the center. A skewed distribution can be skewed to the left or right. In a skewed distribution, the measures of center may not be equal.

Match a dot plot and stem-and-leaf plot with each type of distribution. Then describe the measures of center.



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1. skewed left

2. normal

3. skewed right

LESSON
5

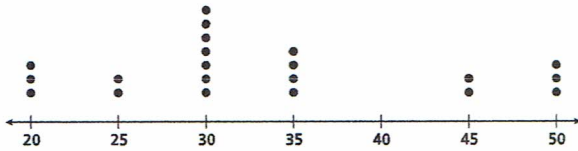
Data Collection and Analysis

Problem Solving: Describing Distributions

Write the correct answer.

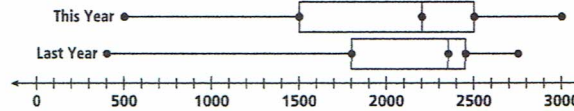
1. The data set and dot plot display the number of dogs at the dog park each day for the past 3 weeks. Describe the shape of the data distribution.

25	30	30	45	50	20	35
50	35	30	30	20	30	45
30	50	35	25	35	30	20



2. The box-and-whisker plots show the number of visitors to the water park on each summer weekend this year and last year. Describe how the distributions are alike and how they are different.

Water Park Weekend Attendance



Circle the letter of the correct answer.

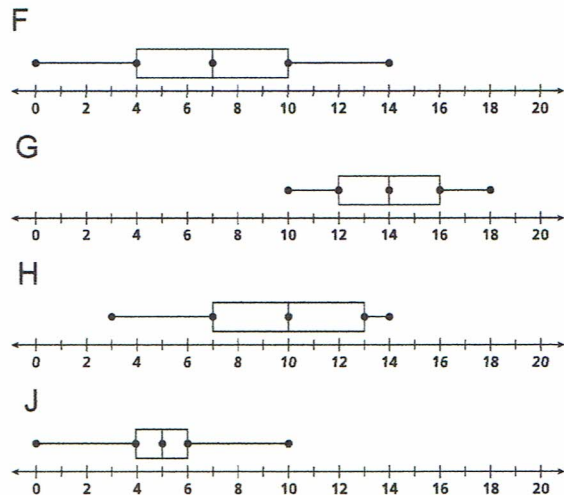
3. Jim drew a dot plot with normal distribution. Which could be Jim's data set?

- A 30, 40, 40, 50, 60, 70, 70, 80
- B 0, 1, 2, 2, 3, 4, 4, 5, 6
- C 11, 12, 13, 13, 14, 16, 17, 18
- D 4, 6, 6, 7, 7, 7, 8, 8, 10

5. A box-and-whisker plot shows that the lower quartile is the same as the median. Which data set could represent the data in the box plot?

- A 2, 5, 5, 5, 7, 8, 8
- B 14, 14, 16, 17, 17, 17, 18
- C 25, 30, 30, 35, 40, 40, 45
- D 50, 60, 70, 80, 90, 100, 110

4. Which box-and-whisker plot shows a skewed distribution?



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